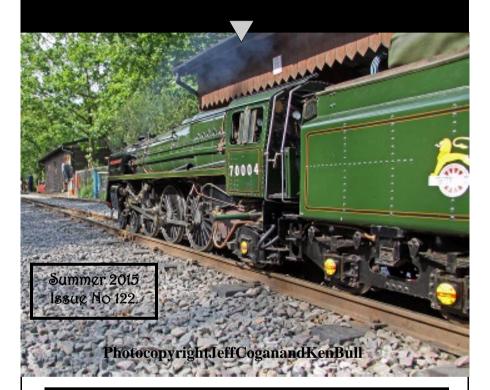
# The Oily Rag!



AmagnificentBritannia, seenatthe Echills Wood Railway, visitreportinside.

The Taunton Model Engineers' magazine

## Contents

- 3. FromtheEditor
- 4. Chairman's Notes
- 5. NewsfromCreech.
- 7. ReportfromVivaryPark
- 9. Vivaryextra.
- 10. The Tickers Horological Sub-Group.
- **11. ClubLECMay2015.** ByDavidHartland Areportonthisyearscompetition.
- **13. Avisitt otheEchillsWoodRailway,** BytheEditor Abriefreport.
- **15. TheotherGNRStirlingsingles** ByMarkWaite Newcontr ibutor,oldengines.
- **19. Operationdogkennel** ByDoctorSpin NewdevelopmentsatCreech.
- **22. TheBrightonAtlantic Project** ByNevilleWatts Anintroductiontoafullsizebuild.
- **24.** The "Toby" project By Barry Purchase Newsofagro upbuild at the W&YDMES.
- **28. OfShipsandThings** ByFiremanM.N.retd. Anewshipandcoldweather

## From the Editor

Wearenowwellintothe 2015 season, the weather has been reasonably kind and receipts from our three tracks are up. Yes three tracks! Two locoswere kept busy at Stockland fair and nearly 400 passengers were carried during the afternoon. Is uspect this is a record. The portable track will be out at least 3 more times this year and your help would be welcome. Date setc. will be circulated by email.

Thingshaveyettoresolvethemselveswithregardtotheleaseat Creechbutchangeseemstobeintheaira ndwearefeelingfarmore confidentofthefuture. Thingsmaynotgosowellatthe Westland & Yeovil District Model Engineerin gSocietywhoareunderthreat of eviction. Ihopetheyareabletosortsomethingout with their landlord. If not I amsure the TME would welcome the "refugees" until such time as they can find another site.

Yourmagazineisabitbehindschedulethisis sue, duetoshortage of copy. Fortunately abit of arm twisting brought in some latearticles from old and new contributors. Ir egularly askyout op utpento paper, but without your words and pictures the rewill not be an "Oily Rag" as we know it. Justa new sletter/information sheet.

Beingbehindschedulesomereportshavebeenovertakenbyevents. AsfaraspossibleIhavekep tthemuptodate.Progresswiththe "DogKennel"hasbeenveryimpressivesothishasbeenupdated twice!.

John

## Chairman's Notes

#### **ByMikeJohns**

MemberswillbepleasedtoknowthatourpresentationledbyDavid HartlandtotheCreechParishpublicmeetingwaswellreceive dand causedmuchinterest.Somuchsothatasnapvotecalledforbythe chairmanofthemeetingregardingTME'sfutureonthe recreation fieldwasoverwhelminglyinfavourofusstaying.Onepersonoutof some90presentvotedagainstandoneabstaineds ayinghewished toseewhattheotheroptionsmightbefirst.

FollowingthelocalelectionsinearlyMay,theinauguralmeeting of the 'new' Parish Counciltook place on the 11 May when Andy Cookeand myselfattended as observers. In factowing to lack of candidates the 8 members attending were all past councillors and had been elected unopposed but three more were co - opted from the floor, one of whom had served before and two others. One of these was Lynn Gates, Simon's mother, who duly declared that she interest in TME matters and would be speaking for usat future meetings. We also sawane w Chairman and Vice - chairman appointed.

The Council was due to discuss their architect's proposals for development of the recreation field but it rapidly became apparent that what was being tabled did not meet PC as pirations and further, that the members themselves were not agreed as to what was wanted. The Chairmanthere for eruled that until members themselves were of one voice there was no point in referring the matter back to the architect.

Insofarasourleaseisconcernedthetermsmaybeaffectedby whateverproposalsaretak enforwardandthereforethecouncilwas

notinapositiontofinalise. Meantimethe Chairmanstatedhe wishedtoseetheoriginal TME agreement terms to compare them with the lease as drafted so fartoen sure heunders to od and could endorse what is to apply.

Whilstwearethereforenofurther forwardatthemomentwedo knowwehavethesupportofthelocalcommunity. Notonlywas thispubliclydemonstratedinthemee tingbutthereisalsoapetition goingaroundthevillagewhichhasalreadygainedseveralhundred favourablesignatures. Weal sonotedthatthenew PCC hairman adopted amore positive attitude and control in conducting his first and second meetings which should be helpful in finalising our situation. Overall weare feeling more confident for the future and have begunt oprogress some site works again as you will see below.

TheclubwasveryactivethelateSpringweekendwith3tracks operational.Onthe Sundaywecarried240passengersinVivary ParkwhileonMondaywehad238passengersatCreechplusnearly 400atStocklandwh eretheportabletrackwasalsoinuse.Agrand totalof878fortheweekend,probablyaTMErecord,forwhichthe Club'scongra tulationsandthanksgotoallthememberswhomade itpossible.Howaboutnexttime.....!!

# News from Creech

### **ByMikeJohns**

HavinggreaterconfidenceinourfutureatCreech,theThursday ganghasnowbeguninstallingboardseithersideofthetrackwh ere ballasthasbeendisplacedovertime.Previouslytheseboardshad beenomittedintheinterestsofeconomyandgettingthet racklaid andoperational.

Withtheleaseproblemswehaveonlybeencarryingoutfirstaid repairsforsomeyearsbuthavenowreachedthepointwherepro per installationandre -ballastingisneededonsafetygrounds. Whilethe weatherisgoodthegangcoulduseallthehelptheyc angetifyou cansparesometime, eithermorningorwholeday. Call Tony Goslingfordetails.

Meantimetheoperatingseasonha sstartedwellandweareclearly gettingthebenefitofnotonlytherecentpublicmeetingbutalsothe goodworkonourwebsit eandinsettingupaTMEFacebook accountthatMikePinkneyisdoing.Thelatterisgeneratingregular enquiriesastoclubact ivitiesandtheopportunitiesfortakingpart. Attendancesonrunningdaysarenowsuchthatweneedatleast3 locomotivesins ervicemostofthetimeandenoughstafftokeep thingsrunningsmoothly.

NowweneedtoconsiderbuildingsomemoreTMErollin gstock butbeforethatcanbedoneadequatestoragehastobeprovided. Thiscanbedonewithinourexistingbuildingbygettin gridofsome clutterandre -arrangingtheinternaltracks. Anextraaccessdoorhas beenletintotheendwalltoallowstockt obepushedthroughona trackextendingdownthebackwallandunderthework -benchto holdupto4vehicles.InitiallyDavidH artlandisfittingasecure doorontheinsidepriortocuttinganyblockwork. Theareaunder thebenchisbeingclearedandmaerialstoragearrangementshave tobecreatedbeforelayingtheextratrack. Again plenty for everybodytodo –andnotweather dependentwhenitrains!!

Westartedtheseasonhavingcompletedthere -bogieingofthe3 TMEvehiclesandthesenowrunwithM arkHartnell'ssimilar vehicle(andhe'sbuildinganotherone),oneofJohnWilliams' whichhasbeenonsitesincelastseasont ogetherwithTony Newberry's2GWRcoacheswhichrunwithhislocomotiveswhen thingsarebusy.

Weplantobuild3moreTMEvehiclesforwhichweshallbe needingthesteelworkforbogiesandunderframes.MarkHartnell hasindicatedthathewillbuildthetimberbodieswhenwe'reready.

Meantimethe2Hymeklocomotivesareeffectivelycomplete thanks toJohnPickeringwhohasbeenfinishingoffthebodiesreadyfor painting. ThisisbeingsponsoredbyMartinRickittwho ishaving thesecondlocomotivewhenfinallyfinished. Oncepaintedfinal assemblycantakeplaceandweshallbeabletohave anappropriate namingceremonyinmemoryofNoelWhiting.

## Report from Vivary Park

### **ByDianaFathers**

EasterSundaysawthestartoftherunningSeasonatVivaryand whatachangefromlastyear!Theweatherwasgloriousandthere wasaconstant,verylongqueueforridesandwesold285tickets, comparedwithlastEasterwhentheweatherwassuchatotal washoutthatnotrainsranandeventheEasterEgghuntintheparkwas calledoff.

Asthequeuegrewlongerandlonger,the childrenwaitedpatiently forthetrainstobeready. Alltheusualcrowdofhelperswerethere and Mel Arlett, blessher, kept us supplied with refreshments. Phil and Jonwerekept busyall afternoon, driving their ever -reliable locos and the tinofsweet sranoutlong before we finished running. Ian, unfortunately, had a problem with his loco and had to come off before heeven go tproperly started.

Thesecondrunningwasblessedwithequallyfineweather(this cannotlast!) and, considering that there was no egghunt, just as busywith 274 tickets sold.

Phil, Jonand Dave Woodsupplied the transport while Barney catered for the workers.

Aspredicted, the weatherforthe May Day weekend Sunday was cold and wet, with equally disappointing numbers, so the least said the better. The following week quite a few worthe Vivary regulars responded to the appeal for help at the Creech running.

ItwasgoodtowelcomethreeoftheClub'sne wermembers,Robert, FrancisandSteve,atthefirsteveningrunningandMarkSweetand JohnCoopermadegooduseoftheopportu nitytocheckouttheir locosonthetrack –andourdogChloemadegooduseofthechance ofafewrides!

Each time we have a public running there are more passengers we haven't seen before who snapup the time tables, so let's all hope for record takings this year!

DavidHartlandhasdonetheofficial reportforClublec:butIwouldjustlike toaddourthankstohimforthe tremendousamountofworkinvolved insettingthisup.Asalways,thiswasa mostenjoyableevent,withafaircrowd ofviewers fromthepublicandafew newfacesfromTME.JohnandMaddie ClarkmanagedtocomeandJohnwasa passengeronPeterClark'sru n. CongratulationstoMarkSweetfor breakingtherecordforthemostlaps covered.Hereceivedawell -deserved roundofapplaus e.



Markunderwayat ClubLEC.

 $The rally season is upon us now so we 'll miss a few running days \\but I'll try to keep up with the news with the help of Phil \\.$ 

## Vivary Extra

#### **ByDianaFathers**

ArequestfromStJamesChurchPrimarySchoolresultedin43six andsevenyearolds,plustheirteachersandhelpers,visiting the VivarytrackonWednesday24thJune.Asitwasnotpossibleto arrangeforthatmanyridesinjustonehour,afinedisplay oflocos wasarrangedonthetrack,indateorderofwhentheywerefirst built.

BarneyEvansbroughtfive3½" gaugelocos(fr omhisvast collectionof15 –seven3½" gaugeandeight5") –allin immaculatecondition:
Stephenson'sRocket,builtin
1829;aRainhill(1830);Petrolea, whichoperatedfromthe1860's totheearly1900's,workingon coaltostartwith,changingtotar oilfortenyears,thenrevertingto coalfortheremainder;an



Barneywithhis G.E.R. 2-4-0"Petrolea".

LBSCRJ1(1910)andaGWRCityClass4330Abergavenny (1902).P hilMortimerbroughthis"gold"5"Britannia(alwaysa favouriteonrunningdays!)

The children were divided into three groups so that they could learn all about how the engines work and a little of their history. While Barneytalked about the earliest days, with the Rocket, Rainhill and Petrolea, Ian's groups learned about the LBSCRJ1 and the Abergavenny, which was the first locomotive to do 100 mph. He

alsobroughtalongsomecopperandbrass,sothathecould demonstratetheirusesinbuildingthelocos. Overontheloading bay, Philkepthisgroups fascinated with his Britannia.



Philexplainstheworkingsofhis Britannia.

TMEsupporterswereRoy andDianaFathersand MikePinkney,whocame alongtotakephotographs ofthevisit(Philhaving firstobtainedapproval fromtheschool).Itwas hopedthattheGazette wouldalsosenda photographerbutthey askedforMike'sphotosto besenttothepaper —with

thenamesofthechildrenpicture d!ThismeansthatPhilwillhave tovisittheschoolsothattheycanchoosewhichtouseandprovide thenames.

The children were obviously fascinated and asked intelligent questions and the whole visit went very well.

## The Tickers

(Horological sub group)

## ByDavidSpicer

Duetomyenforcedinabilitytodriveanydistance, causedbyatorn shoulderligament, Ihavenotbeento Upton Hallsince Apri 1. The clockhowever is progressing slowly, due to module variations and calculations as to the best and most accurate way to proceed. I will be going to Upton Hallonthe 1 st August and will have more information then.

# ClubLec. May 2015

### ByDavidHartland

Sixpeopleenteredfortheevent, with five locomotives, one intending to be runtwice, with two drivers. Unfortunately, the loc oshared between Jon Freeman and Julie Harvey - Smith, had trouble with a clacky alveand had to be with drawn before the start.

ThefirstrunwasPeter Clarkwithhis5inButch named'Cuthbert'.Peter tookthreeadultsandadog andsweptofftoaflying start.Thefirstcircuitwas completedin92seconds andthenext12lapswere doneinahighspeeddash, witheachcircuitvary ing onlybetween58and66 seconds.Unfortunately,on the14thlaphecametoa



PeterClarkand"Butch"

standwithwatertrouble,andwasstillraising steamwhentimewas called.

NextonwasJohnPickeringwith'Salome'in5ingauge.Johnwas cautiousasinpreviousyears,and onlytookthreeadults.Hestarted well,buttherewastroubleonthefourthcircuitandhestoppedfora blowup.Fromthenon everythingsettleddownandhecompleted 14¾laps.

The third run was the reigning Champion, Phil Mortimer. Phil chose

9adultsplusthedogandstartedgingerly;itwassoonclearthatthe

locomotivewasnot runningasfreelyasit might,butste ady progresswasmade and 14 circuits completed. Phil revealed that he had just finished refitting pistonseal stothe engine, and this might explain the slightly slower running.



Philwiththeheaviestloadoftheday

FinallyMarkSweetranwithhis0 -6-0GWRPannier.Hestarted badly,anddro ppedonepassenger,leavingjustoneadultintow,



Competinglocosinthesteamingbay

withtwotrolleys. Afterthefirstlap, however,thefright seemedtotakeho ldof himandspeed increaseddramatically. Thespeedwasso high, he completed the dramaticfigureof181/4 laps,thelast16la beingdonein16min 12seconds, anaverage of61seconds, which is7.5milesperhour. Interestingly,he appearedtobeput ting

coalonthefireonlyforaveryshortperiodineachcircuit, avery creditable performance.

#### TheResults.

Driver	Loco	Load hauled	Distance travelled	Coal used	Score
Peter Clark	Butch	8791b	9113ft	1.38lb	5.80
John Pickering	Salome	9701b	9956ft	1.09lb	8.86
Phil Mortimer	Britannia	2384lb	9450ft	2.06lb	10.9
Mark Sweet	Pannier	806lb	12318ft	1.97lb	5.04

Oneagain, Phil Mortimertakes the shield.

Anotherenjoyableday, withover 20 members present. Thanksonce again to Diana Fathers and Barney Evans for the Catering.

# A visit to Echills Wood Railway

## BytheEditor

Severalofourmembersarealsokeymembersofthe 71/4" gauge societyanditseemsthat when talking to the mit is not long bef ore "The Echills Wood Railway" is mentioned. At least one of them made it clear that this washis favour iterailway. So it was learly one to visit sometime. A couple of weeks back I heard that a group were going up to the "Standard Gauge Weekend" and ther ewas a spare seat. When I was offered this it did not take long to sayyes!

The "Echills Wood Railway" is situated in "The Kingsbury Water Park "near Tamworth. The site is basically flat and wooded. It bo arders the lakewhich gives the park it 's name. The track is a "dogbone" with aloop and a stationate a chend and a section of twintrack in between. The Old Oak



Gettingupsteam

Yard, close to the "Harvester" station, has extensive storage facilities for locomotives and rolling stock. There is also a well equipped workshop.

ThefirstimpressionIgotwasofthescaleoftheoperation.Thelin e isfullysignalledandtherewereagoodnumberofclubmembers involvedinoperatingtherailway,includingquiteafewyoung sters. TheweatherduringourvisitwasnontookindandIforonegot soakedsosomewheretodryoutandhaveacupofteawas a welcomefacility!

Ididnotcountthelocomotivesseen,buttheremusthavebeen aroundthirty. Thequality of all the model swassuperb. B



Steamanddiesel.

swassuperb.Bothsteam anddieselprototypeswere represented.Someofthe locoswhichcaughtmy attentionarepicturedonthe backcover.Thephotoson thispage,thefrontcover andthetopofthebackpage arecopyrightandprintedby kindpermission of Jeff Coganand Ken Bull.

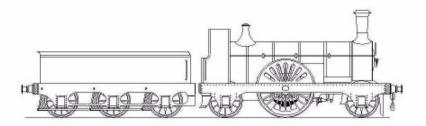
## The other GNR Stirling singles

#### **ByMarkWaite**

TheStirling8'singlesareiconiclocomotives.Fewrailway enthusiastsandmanywhowouldnotdescribethemselvesassuch, wouldfailtorecognisethemfrompictures.Theyareoneofmy favouritelocomotivesandinmyopiniononeofthemostelegant everbuilt.Howevertheywerenottheonlysinglesdesignedby PatrickStirlingduringhistimeas"LocomotiveEngineer"withth e GreatNorthernRailway.Healsodesignedseveralclassesof2 -2-2s whichwerearguablybetterengines.

PatrickStirlingtook overfromArchibaldSturrockattheendof 1866.Hewasagreatbelieverinstandardisationandimmediately startedtorationali sethelocomotivestock.Soonearlierlocomotives appeared,rebuiltwiththeclassicStirling"straightback"boilersand otherl essobviousstandardStirlingfeatures.

Hisfirst class of newlocomotives were the 280 series 2 -4-0sA further6batchesof2 -4-0swerebuilt,theybecameoneofthemost numeroustypesontheGNRandamainstayofpassenger operations. Howevertheirpe rformanceon express trains was not up toexpectationssoStirlingdecidedtoexperimentwithasingle wheeler, based closely on these ries 280 components. The 280 series werenewlocomotivestheirpurchasewasapprovedbytheboard andtheyappearonthe capitalaccount.Stirlingprobablyhadmore controloftherevenueaccountthanthecapitalaccount. Soasearlier singlewheele rswerewithdrawnhebuilttotallynewengineswith theircostsbeingchargedtotherevenueaccountwheretheyare listedas"r ebuiltnewboiler"theyretainednothingfromtheoriginal engineexceptit's number. The first loco of the new class was no 6. itenteredserviceinMarch1868.



#### Alaterclass6asbuiltaround1869

TheGNRhaduptothisdateboughtitslocomotivesfromoutside suppliersbutStirlingwantedtobuildinhouseanddevelop Doncasterasamajorlocomotiveworks.No6wasthethirdengine builtinhouseandthefirstexpresslocomotive.Theclass6en gines had7'1"drivingwheelsandinsidecylinders.Theyrapidlyacquired areputationforfreerunning.Onhisregulartripsf romDoncasterto KingsCrossforboardmeetingsStirlingnotedthattheywereboth

fasterthanthe 2 -4-0s and, rather surprising ly, better atclimbing hills. Twelve of the sesmall engines were built, the last two in 1870.

No1thefirstofthe "bogies" a sthe8' singles werecalled when in service, was built in 1870. The newengines were larger than the class 6 sall round, bigge bigger driving wheels.



Aclass6,no63 photographedaround1880

rboilers.biggercylindersandofcourse

Theearly "bogies" weighed 39 tons 4 cwts rising to 49 tons 11 cwts. d.The forthe1003series,theclass6enginesweighed33tonsdea class6hadbeenanimmediatesuccessbutthe"bogies"weresubject tomanychangestoimprovepoorsteamingandtotryt theirrunning.DespiteallStirling'seffortsandthoseofhissuccessor H.A.Ivatttheywereneverasfreerunninga sthe2 -2-2s.Duringthe 1870sthe "bogies" were the only express locomotives built at Doncaster. The two classes worked "turna" ndturnabout"throughout thisperiod, but a strain weights grewand the number of available "bogies"increasedtheclass6engi nesweretransferredtosecondary duties. Howeverthis did not mean pottering around East Anglia with a local stopper, insteadt heyhandledthelightertrains. These wereoftennonstopexpresses and could be very sharply timed.

In1853aSturrocksingle wheeler,no215hadenteredservice. This wasa4 -2-2thesameasthe "bogies" itwaswithdrawnin1869. Asa cannyScotStirli ngcouldnotscrapit's fine 7'7" driving wheels, so hebuilt what was basically an enlarged class 6 around them. This locomotive, no 92, entered service in June 1870 and so on became something of acelebrity with the rail way enthusiasts of the day. It became obvious that it was at least the equal of the "bogies" and it came to be accepted as "the swiftest on the line". It remai ned in the top link until shortly before it was with drawn in 1902.

Stirlingmadenosecretofthefactthatthe"bogies"wereh isown favourites.Hewasveryproudoftheirlooks,turningdownanew valvegearproposedbyDavidJoybecauseitwouldspoil their appearance.Howeverthe"bogies"weremoreexpensivetobuild thanthe2 -2-2sandwereprovinglessreliable.Iftheonly 2-2-2shad beentheclass6enginesthiscouldhavebeenignoredbutno92was showingthata7'6"singlecouldalsooutperfor mthem.

In 1879 Stirling was urged by the board to cut costs, as part of his cost cutting he started once again to build 2 -2-2 s. in 1884.

Thenewengineshadsmallercylindersthanthebogies, 18"x26" as opposed to 18"x28" but they had slightly larger boilers, the drivers were no minally 7'6" indiameter. They proved to have the same free



No229thesecondenlarged7'6"Singleofthe234series

runningcharacteristicsastheother 2 -2-2s.Eve nStirlinghadto ratherreluctantlyadmitthattheyweremorepowerfulthanthe "bogies".Recordsshowtheywerealsofaster,t hefastestrecorded speedbya"bogie"is84.1mphandthatfora7'6"engineis86.5 mph.Despitethis,in1894afteronly23 hadbeenbuiltStirling revertedtobuildingonly"bogies"ashistoplinkexpresslocos.

WhenStirlingdied,H.A.Ivatttook overatDoncaster.In1902he builtaclassoflightexpresslocomotives.Althoughthesewere "bogies"inallotherrespectsthe ywerefarmorecloselyrelatedto the7'6"singleshaving7'6"driversandinsidecylinders.

Asmodelengineerstheaesthet icsofadesigncanbemoreimportant thanthefunction. Particularlyinsmallerscales, wheretheworking partswillbecomplet elydifferent from the prototype design and need not suffer from the its short coming.

Itiseasytoseewhymodelsofthemoreshowy"bogies"are relativelycommonwhilstmodelsofthe2 -2-2sarerare,itisasham thatthesefineenginesareusuallyignored.

e

Inhisbook"GreatNorthernLocomotiveHistory"vol.II"The StirlingEra"ale adingauthorityontheGreatNorthernRailway,N Groves,arguesthatthe7'6"singlesweretheepitomeofBritish locomotivede signofthenineteenthcentury.Hestatesthat"they gaveoneofthebestreturnsforamodestcapitaloutlayofany locomotiveinBritain".Astothelittleclass6sany"rebuilt"express locomotivewhichcanstillbeinserviceonthemainlineover36 yearsafterits"rebuild"cannotbeallbad!

Ifyouaretemptedtobuildamodelofoneoftheseenginesin5" gauge, Blackga tes Engineering supplydrawing sandcastings for the Martin Evansmodelofanen larged 7'6" engine. Idonotknow of any commer cial sources of parts or drawings for other classes or other gauges. Some original drawings are available from "The National Railway Museum".

## Operation Dog Kennel

#### BYDOCTORSPIN

Trainstakeupalotofspace.Lotsofcarriagesmeanalotoftrack usedupforsidings.Onthefullsizerailwaytherehasalw aysbeena problemwithshortageofspace,particularlysincesomanysidings andsparetrackwereremovedinthe1960'sand197 0's.Thereused toberakesofsparecarriagesinobscuresidingsallovertheBR systemwhennotinuse,andofcoursecarriag eshedsarefull overnightwithcoachesandemptyalldaylong.Allveryinefficient. OurownrailwayatCreechsuffersfromthe sameproblem.The workshopisfullofcarriages!

Thebesttimetodoanyworkin theworkshopiswhenallthe carriagesareout —duringa runningsession. Whenthe carriagesar einyoucannotmove withouttrippingoverarunning boardorcollapsingontoaseat cushionandthishasledthe workingmember sinto performingaregulardance whichhascometobeknownas the "CreechContortion", asthey trytomovearoundtheshed.

Whatweneedisextraspace. We already have a lifting device to lift carriages on to some shelves,

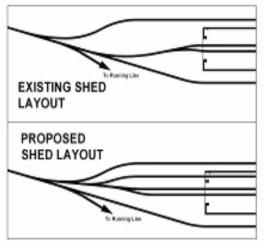
Simonperformsthe"Creech Contortion"

theuseofatraversertomovethe carriagelaterallyandthistakestime. Whilemusingthisover,andnodoubt nursinganother setofbruisesfrom the "CreechContortion", your Thursdaygangcameupwithanidea.

Theenddoorsoftheshedareonly wideenoughfortwotracksintothe shedbutthereisextraspacetoone sideofthedoorsbetweenthebrick piersoftheshedend wall.Intothis spaceitwasjustpossibletocuta smalldoorway(just30inhighto clearthecarriages). This will allow a new, third track to be laid into the shed and all the way down under the large bench.



Thecurrenttracklayout



Beforeandafter.

Thiswillbeenoughto storefourpassenger carriagesoutoftheway. Tokeepthebuildingsecure aheavydoorwasrequired. It wasdecidedtousea slidingshutterdoor.

Somenewtrackwillbe requiredoutsidetheshedto connectthisnewstabling roadt othemainline. This gives another chance to improve matters, because we could do with space outside the shed to place

vehicles. The result is shown in the drawing, 'before' and 'after'. Some newpoint work will be required, but this need only be of 71/4" gauge, not mixed, because 5" gauge stock does not venture into the shedarea.

Thewholeprojectis expectedtotakeafew months. Thefirsttaskwasto cutthedoor. Thistookless timethanexpected. A diamondcuttingdisc made a tidyfirst cut and various degrees of brutality removed the rest. Adoorwas fabricated from plywood with a steel facing and runners fitted into the interior walls.



DavidHartlandabouttotakethe firstcut

Theremainingheavywork isoutsidetheshedwherethe sitehastobepreparedfor thenewtracklayout.Inside thenewroadhas tobelaid andthepointsfabricated. Anyoneinterestedinthis projectpleasecontacta memberoftheThursday gangorjusttmupat CreechonThursdays between9.30and4.pm.We willbedelightedtoseeyou!



Don'trecognisethebreed!

## The Brighton Atlantic Project.

### **ByNevilleWatts**

The Brighton Atlantic Projectisre - creating an LBSCRH2 Class 'Beachy Head'. The original was scrapped in 1958. The small group working on this project have their own head quarters, Atlantic



BeachyHeadinB.R.Days

House,locatedinSheffield Parkstationyardonthe BluebellRailway.

AnexLNERboilerfroma C1Atlanticwaspurchased backin1987fromafactory siteinEssexand,subsequent tothis ,atenderunderframe fromaB4andthetender wheelsetsfromaC2X,both LBSCR,wereobtained. AtlanticHouse, the project's workshop, was erected in 2006. This then provided as a fear descure home for the project.

Theco nstructionproperthenstarted with the erection of the mainframes in 2007. The larger parts outside the scope of the Bluebell Railwayor Atlantic Houseworkshops were bought in but the majority has been machined or fabricated in house. The Project Manageris Keith Sturt (former Bluebellworkshop manager) and the Design Engineer is Fred Bailey. Fred has been very enthusiastic in producing many CAD drawings covering all aspects of the locomotive as only are latively small number of the original drawings we reavailable at the National Railway Museum.

Progresshasbeenspectacular. We now have a fully wheeled chassis with all their side motion and pipe work installed. Currently the

wheelsplashersarebeing fittedpriortotheeventual boilerlift. Theboiler isin remarkablygood conditionandonly requiresminimumwork and a completere - tube with new internal plumbing before it can be tested.



Arecentphotooftheframes

Allthefundsforthis projecthavetoberaised bythegroupthemselves

withsomeinputfromtheBluebellRailway Trust.Ifyouwouldlike acurrentcopyofAtlanticNewsandasupportersform,email chris-nev.watts@tesco.netwithyournam eandaddressorletJohn Pickeringknowandhewillpassonyourdetails.

#### Westland&YeovilDistrictModelEngineeringSociety

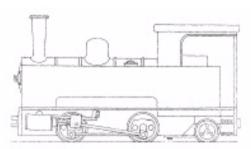
## TOBY PROJECT

#### ByBarryPurchase

The 'TOBYPROJECT' was started by the W&YDMES as a result of a number of members not having built an engine or having limited engineering skills or confidence to take on such a project. After a visit to the Bristol Model Engineering Exhibition in 2011 the 2½" gauge loco "Toby" was selected for a group build and the 'TOBYPROJECT' was born.

 $\hbox{``Toby''} is a free lance narrow gauge locode signed by Steve Eaton$ 

andintendedtobeas simpleaspossibletobuild. Allthecasti ngsrequired withtheexceptionofthe domeandchimney availablefromthe "National2½" Gauge Association "which also supplies a construction book and drawings.



Toby

ThedesignwasoriginallypublishedasaseriesintheAssociations magazine, "TheSteamChe st" and subsequently in "Model Engineer"

Discussionstookplaceastohowwewouldgoaboutthetask, what castingswewouldpurchaseandprocurement of materialetc. It was decided from the start that certain modifications would be incorporated, ie the sole plate extended at the front by 1"

Lasercutitemsweretobeusedwherepossible.Materialtobuild10 engineswasorderedalongwith8setsoflasercutframes, soleplates andponytruckframesfromalocalengineeringcompany.This allowedahugesavingincostandlabour.Cylinderand steamchest castingswerefromthe'National2½''GaugeAssociation'.

Workstartedonthewheels, which were machined from soli dwith bossessilversoldered on, and the axles. Soon arolling chassis was made.



Anassembledcylinderandvalve assembly.

Workslowlyprogressedwith cylindersandval vegearand miscellaneousitemsetc. Variousjigsetcweremade toassistinmanufacture. Duringthistimeweheld regular 'work shopdays', so that problems could be sorted out. We experienced a problem with blowholes in 2 of the cylinder castings

 $procured from The National 21 \slash 23 \slash 23 \slash 23 \slash 23 \slash 24 \slash 23 \slash 24 \slash 25 \sla$ 

MyownengineI havebuiltwithout usinganycastings, soastodemonstrate howitemscanbe fabricatedandsilver solderedtogether. Thephotoshowsthe differencebe tween thesupplied



Alternativesteamchests

steamchestcasting(top)andafabricatedpart(bottom). Thesteam chestcastingneededmodifying by silversoldering on an extra raboss at the front end.

Oneofthebigissues, commontoall modelengineering projects, was the lack of some dimensions, to learn ceset conthedrawings. 'Toby' is described as a 'Beginner sengine', but some engineering knowledge is required. This is no taproject for a raw beginner. After a working life in the air craft industry - firstly as a mechanical fitter, as sembling helic opter transmission systems, then a Jigand Tooldraughtsman, before ending myprofessional career as a testing designer - I was able to iron out most of the problems.

Summer2013and thoughtsturnedto buildingboilers. Againfewhadhad anyexperience. A temporarylean -to shelterwas constructedoutside ourworkshopfrom scaffoldingpolesand roofingsheetsto houseabrazing hearth.Materialfor 12boilerswas



Apartbuiltboileronthebrazinghearth

orderedfromEdwardsMetals,Birmingham,andsilversolderfrom Cup-Alloys.Steelflangingp latesweredrawnuponAutoCadand variousmembersmanufacturedthem.

Aplanninglayoutforeachboilerwasproduced, so that our boiler inspector could see and sign of feach stage of manufacture and assembly. Boiler making progressed and most boilers that thave been made have been successfully hydraulic tested to 200 p.s.i.

Duringtestingofanearlyboiler,bulgingofthefireboxwasamajor concern,soallsubsequentboilersweremodifiedbyaddin ga

supportingringontheoutside. This modification was drawn up and signed off by a stressengineer.

Itisrecommendedthat anyone makinga'Toby'shouldusea minimumof13swgforthefirebox. Idon'tthink3¼''diacoppertubeof thatgaugeisrea dilyavailable,soroll atubefromflatsheetandsilver solderabuttstrapontheoutsideof thejoint.



Themodifiedfirebox.

Todatewehaveone enginefinished,butnotsteamed,3or4others havesuccessfullyrunonairandtheothers,exceptfortwothathave droppedo ut,arenearingfinalassemblyoftherunninggearready forrunning. Alltheenginesaretakingonauniquecharacteroftheir own,justliketheirowners. Twomembershaveevenconverted theirsto3½" whichdoesmakeitaloteasiertoassembleandadju thevalvegear.



PartbuiltlocosontheW&YDMESstandatthe BristolExhibitionin2014

st

Afewwereexhibitedat the Bristol Showin August 2014.

Overthelast12months orsoprogresshas slowedsomewhat because of the uncertaintyaboutthesite thecluboccupies, and in midMay2015wewere givennoticetovacateby 30thSeptember.



Acompleted "Toby" built by Peter Depper

Wear einnegotiationsto tryandremain,butwill havetowaitandsee.Wewereplanningtoholda'TOBYDAY'to showoffourachiev ements,butatthemomentthisisveryuncertain, butIwillkeepyouupdated

## OF SHIPS AND THINGS

### ByFiremanM.N.Retired

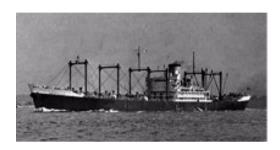
The Kenya Castlewas due to sail on the 30th September and Madelines aid we should go to the dock son the 28th formeto sign on, inher case it was just a formality as shew as on a company contract but formeas it turned out the enginer oom was fully crewed son ojob. Only one thing for it, off to the "pool" This was the seaman's name for the Shipping Federation, who supplie for all ships sailing from UK ports.

dcrews

The "Beavercove" wanted a Refrigerator greasers ailing next morning so I took it.

NextthingwasaquickdashovertoClaphamt opickupmygear andsaygoodbyetoMadelineandTomandthankthemforputting meuporshouldIsayputtingupwithme.

The "Beavercove" waspart of Canadian Pacific Steamships. Builtin 1947, justunder 10,000 tonshe was a single screwwith turbo-electric drivegiving a speed of 16 knots. The Boilers were high pressure, being 850 lbs per square in chreduced to 750 lbs into the turbines. These ships were



SS.Beavercove

knownas "One Wayers" that being emptyout and loaded home. Once out in the North Atlantic with just twater ballast werolled all the way, they were the sort of ships as the saying goes that would roll on wetgrass.

Aswegota breastofHalifaxwemettheicefloescomingdown fromtheArtic,someofthemwereprettyimpressive.Onceintothe GulfofStLawrencethingscalmeddownabitbuttherewasstilla lotofpackice.Itseemedstrangeinawaybecauseonmostships youtrytofindwaystokeepcoolbuthereitwaskeepingwarm.The CanadianPacificwastheonlycompanywhoissuedatotofRu mto combatthecold.Anotherthingtheusualsteamleaksintheengine roominsteadofjustdisappearingtheycondensedonthe ship'sside andturnedtoice.

AswewentdowntheSt.LawrencepastQuebecitstartedtowarm

upandbythetimewegottoMontrealitwasseveraldegrees warmer,stillcoldthough.

Imusts ay,tomeMontrealwasadisappointment,expectingittobe
Newandcleanandbright.Ithoughtitlookedoldandtatty.Backin
JunetheQueenhadbeenonavisittoopentheStLawrenceSeaway
andmostoftheshopsandbarsstillhadunionjacksandpict uresof
theQueenonthewalls,theyreallytooktoourmonarchy,notlike
QuebecbutthentheFrenchdidn'tevenlikethemselve s.

Assoonasweweretieduploadingbegan,trainloadsofcopperbars andgrainfromhugesilosonthedockside,thewaythat stuffpoured inyoucouldalmostseetheshipsettledowninthewater.Fourdays andloadingwasfinishedhereandwewereoff, 6hoursuprivertoa placecalledTroisRivieres(ThreeRivers),herewetookonadeck cargooftimberstackedabout12feet high.

Thenupriveranother6hourstoQuebecwhereonecompletehold wasloadedwithcheeseandapples(separated)thisiswher e refrigerationwasneeded.Oncethatholdwasbatteneddownthey foundsomemoretimbertostackontop.

## Subscriptions

OrdinaryMembershipis£30withafurther£5forspouseor partner.

JuniorMembership —£5



Transatlanticdoubleheading PhotocopyrightJeffCoganandKenBull



AnAspinallL&Y2 -4-2



ANorfolk&WesternP5



OneoftwoLNWRT9s.



AfineArmstrongGWR4 -4-0

More images from Cehills Wood Railway